

grep

Talk to a Teacher

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Script

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Learning Objectives



Learning Objectives

- ▶ **grep command**



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- ▶ **grep command**
- ▶ **Some examples**



System Requirements



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- ▶ **Ubuntu Linux v. 12.04 OS**



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- ▶ **Ubuntu Linux v. 12.04 OS**
- ▶ **GNU BASH v. 4.2.24**



Prerequisites



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- ▶ **You should know Basics of linux terminal**



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Regular Expressions



Regular Expressions

- ▶ **Regular expressions are pattern matching techniques**



Regular Expressions

- ▶ Regular expressions are pattern matching techniques
- ▶ To find out whether a pattern exist in a line, paragraph or a file



Regular Expressions



Regular Expressions

- ▶ For ex. If you want to search a phone number in the telephone directory



Regular Expressions

- ▶ **For ex. If you want to search a phone number in the telephone directory**



Regular Expressions

- ▶ For ex. If you want to search a phone number in the telephone directory

Or



Regular Expressions

- ▶ For ex. If you want to search a phone number in the telephone directory

Or

- ▶ To find a keyword in a paragraph or a line, we use grep command



Introduction to grep



Introduction to grep

- ▶ **grep searches for one or more patterns in one or more line, paragraph or a file**



Introduction to grep

- ▶ **grep searches for one or more patterns in one or more line, paragraph or a file**
- ▶ **If filename is not mentioned, grep searches for the patterns in the standard input**



Introduction to grep



Introduction to grep

- ▶ **If filename is missing, grep searches for the patterns in the standard input**



Summary

- ▶ To see the content of a file
 - ▶ eg. `cat filename`
- ▶ To list the entries of a particular stream
 - ▶ eg. `grep "computers" grepdemo.txt`
- ▶ To ignore cases
 - ▶ eg. `grep -i "computers" grepdemo.txt`



Summary

- ▶ **Lines that do not match the pattern**
 - ▶ eg. `grep -iv "pass" grepdemo.txt`
- ▶ **To list the line numbers with the entries**
 - ▶ eg. `grep -in "fail" grepdemo.txt`



Summary

- ▶ **To store the result in another file**
 - ▶ eg. `grep -iv "pass" grepdemo.txt > notpass.txt`
- ▶ **To know the count**
 - ▶ eg. `grep -c "Fail" grepdemo.txt`



Assignment

- ▶ Explore some other commands like -E, + and ?



About the Spoken Tutorial Project

- ▶ Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
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The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to contact@spoken-tutorial.org



Acknowledgements

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- ▶ **It is supported by the National Mission on Education through ICT, MHRD, Government of India**
- ▶ **More information on this Mission is available at:**

<http://spoken-tutorial.org/NMEICT-Intro>

